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TECHNOVISION

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SPA-PP/PROD-133. 14 April 2025. Rev03

Preface

- It's our great honor that you choose Elitech Plasma Air Sterilizer (here in after called Sterilizer). Please read this Manual before handle the Sterilizer. Please strictly follow instructions in this Manual for installation, operation and maintenance of the Sterilizer.
- This Manual is an essential part of the Sterilizer. Please keep it properly.
- Please read all the information in this Manual before operate the sterilizer. Information in this Manual will help you on a quick understanding of how to operate the Sterilizer.
- All contents including figures and pictures are not allowed for other use without written consent of Sinko.
- Only engineers properly trained and authorized by Sinko is allowed work on installation, maintenance and troubleshooting of the Sterilizer.
- If this Manual is lost, please contact us for another copy immediately. This Manual is compiled according to regular medical product.
- As the sterilizer is being updated, any Inappropriate please call or email us.
- As the sterilizer is being updated, Sinko reserves the rights of modification of technical parameters and the Manual itself.

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1. Structure

The full name of the product is Elitech Plasma Air Sterilizer KJF-Y100, here is after referred to as the Air Sterilizer.

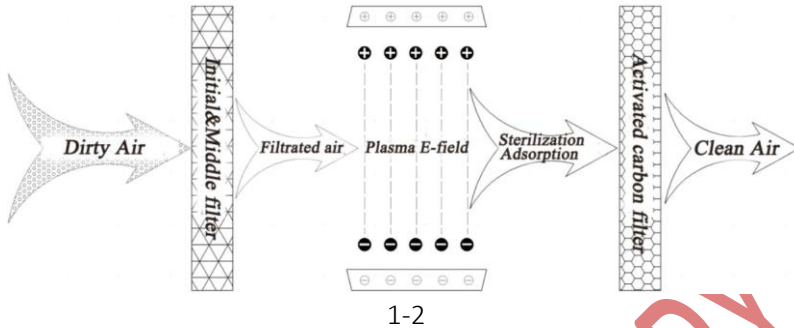
The Air Sterilizer adopts plasma air disinfection technology with the advantages of low power consumption, high efficacy of dissolution and degradation, no pollution and long life span. Plasma technology used in the Sterilizer is with special design to enhance the efficiency and efficacy and in the meantime, avoid drawback of regular plasma technology and ESP de-dusting technology. Most consumables such as UV lamps, HEPA filters are removed from the Sterilizer to cut the running cost down, while the purification and disinfection efficacy are better than traditional UV air purifiers.

1.1 Structure

The Device is main consisted of filters, plasma generator, plasma electrodes, circulation fan, covers, screen, controller, etc. See 1-1



1.2 Work Principle



Under the effect of circulating fan, dirty indoor air inhaled in the Device and firstly passes initial & middle filter, which filtrates large particles such as hairs. Then filtrated air then enters into plasma sterilization area in the Device. Activated radicals of plasma disinfect microorganism and degrade harmful objects in the air. Finally activated carbon filter adsorbs and filtrate smell and microorganism residues in the air. After few times of reprocessing, room air becomes clean and disinfected.

2. Functions & Features

2.1 Disinfection Efficacy

The Sterilizer works continuously at its highest air speed in an hour in a 100 m³ room can kill ≥90% airborne microorganism.

2.2 Purification Efficacy

The Sterilizer works continuously for 1 hour can help a 100 m³ room of class 1,000,000 room to reach class 100,000, effectively removes particles.

2.3 Smokes and Odors

For smoke, formaldehyde, ammonia, benzene and other harmful gases have good removal ability.

2.4 Environmental protection work mode

Dynamic Working: The Sterilizer can work together with people without any protection measures. It also doesn't generate hazardous secondary substances to people.

2.5 Three Sterilization Cycles

Manual mode, Auto Mode, Timer Mode, users can use switch according

the actual use.

Manual mode: manual start / stop purification through infrared remote control or mobile phone APP.

Timer mode: according to set time to start or stop disinfection, infrared remote controller can set three kind of timing duration, also can use APP to set a variety of time or different combinations.

Auto mode: The Sterilizer works or stops work according to ambient air quality detected by build-in air quality sensors.

2.6 Easy Operation

Far infrared remote control operation and APP (support Android and IOS) operation.

Wind speed adjustment: With the central air conditioning line controller, infrared remote controller and mobile phone APP.

Temperature & Humidity Monitoring: Users can check the indoor real-time temperature and humidity through mobile phone APP and air return panel display.

Check data: Working time count down accumulated time, record and so on.

2.7 Remote

The sterilizer could connected with Wi-Fi and be controlled by APP

Note: This function requires a stable Wi-Fi connection

Sterilizers need to be covered by Wi-Fi signals (group or public users need to assign specific personnel to operate

2.8 Environmental monitoring function (Accessory unless specified)

PM2.5 detections (Build-in)

The indoor PM 2.5 concentration is detected dynamically. Users can view the current data of PM 2.5 through the display panel or mobile APP, and the historical data of PM2.5 through mobile APP. PM2.5 reference list of air quality corresponding to different concentrations

Formaldehyde detection (Optional) Check indoor formaldehyde concentration.

Reference table 2-1

Formaldehyde concentration	Class of pollution	Symptom
< 0.09	Fresh Air	Easy to catch cold, poor immunity, sore throat in the morning
0.09~0.3	Slightly polluted	Cough, glass easy dead inside
0.4~0.8	Heavy polluted	Asthma, Leukemia, Lung cancer
≥0.9	Extreme pollution	Asthma, easy to get leukemia, lung cancer, etc.

Formaldehyde concentration level in air 2-1
 Color of Light indicates the Air Quality Level



Blue: Excellent Air Quality



Green: Good Air Quality



Yellow: Middle Air Quality



Red: Poor Air Quality

3. Technical Parameters

TECHNICAL PARAMETERS		
Model		KJF-Y100
Normal Working Voltage		AC 110V ~ 240V 50/60 Hz
Power		≤ 50W
Sterilization Capability		≤ 100 m3
Noise Level		45 dB
Ozone Filtration Capability		<0.025mg/m3
Instalasi		Mobile
Weight		18 kg
Dimensions		900 mm(P) x 340 mm(L) x 340 mm(T)
Normal Usage Condition	Temperature	-10°C ~ 40°C
	Relative Humidity	≤90% (Non-condensate)
	Atmospheric Pressure	700 ~ 1080 hpa
Transportation and Storage	Temperature	-20°C ~ 55°C
	Relative Humidity	≤ 95%
	Atmospheric Pressure	700 ~ 1080 hpa

4. Application Range

1. Usage: The Sterilizer is designed to sterilize indoor air.
2. Application Range
Applicable for various class II and III rooms, such as clinics, inpatient rooms, offices, normal OT and so on.
3. The Sterilizer cannot sterilize rooms that are with high temperature, high humidity and dust, such as bathroom, kitchen and so on.

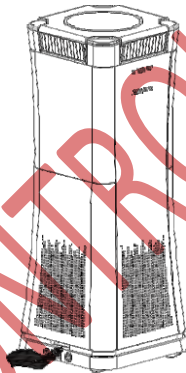
5. Attention While Use

1. Read this Manual carefully before use.
2. Regular cleaning or replacement of filters according to working

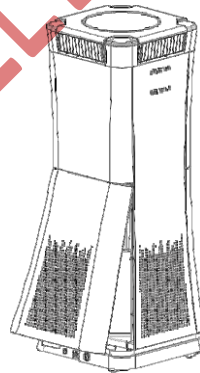
environment.

3. To avoid danger, only authorized personnel by the manufacturer is allowed to disassemble the Sterilizer.
4. Keep the Sterilizer away from fire and/or high humidity environment, and avoid severe impact.
5. Power supply socket should be a three-pin socket and should be properly grounded.
6. Check the working condition of the Sterilizer regularly and cut power off if any irregularity found. Only engineers authorized by the manufacturer is allowed to work on troubleshooting.
7. Periodically check the work efficacy of the Sterilizer.
8. Take battery out from remote if the Sterilizer is not going to be used for a while.

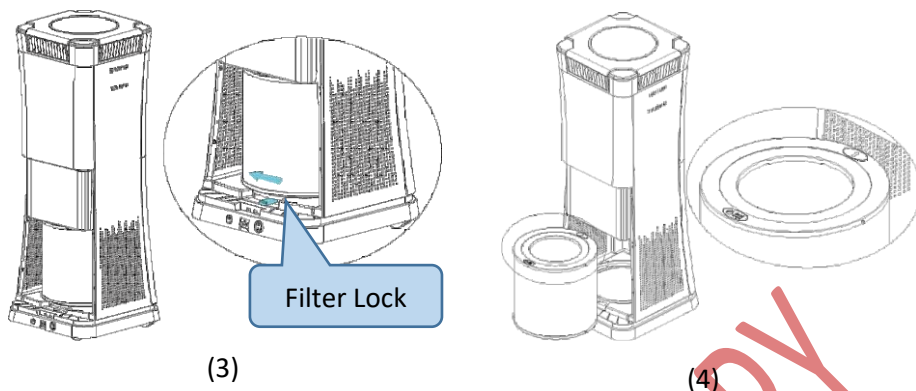
6. Change Filter



(1)



(2)



6-1

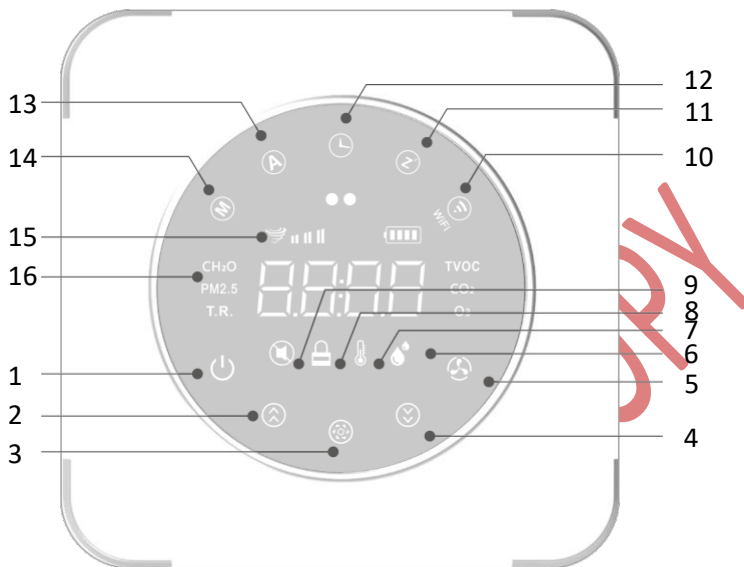
1. Open the bottom side panel on power switch side, showing at 6-1-(1), (2)
2. Move the filter lock to left, showing at 6-1(3)
3. Take out filter
4. Put new filter inside with arrow side up, lock filter tightly.

ATTENTION

1. Installation should strictly comply with User Manual installation method by authorized technical personnel;
2. The manufacture is not liable for any loose during installation if following installation instructions herein and/or by unauthorized personnel.

7. Operation

7.1 Display



- | | | | |
|---------------------|----------------|------------------|--------------------------------|
| 1. Switcher | 5. Wind Speed | 9. Quiet Mode | 13. Intelligent mode |
| 2. Up | 6. Humidity | 10. WIFI Network | 14. Manual Mode |
| 3. Functional Model | 7. Temperature | 11. Sleep Mode | 15. Speed |
| 4. Down | 8. Child lock | 12. Timer Mode | 16. Comprehensive display area |

The contents of the panel display include: PM2.5 concentrations, PM 2.5 Icon, Fan condition

PM2.5 concentration : Display current indoor PM2.5 concentration.

Range : 0-999 g/m







PM 2.5 Icon : Keep light with power

Fan condition : The icon will be faster or slower as per the fan speed.

Running indication on Device Panel:

- Icon (refers to Manual/Auto/Timer/Sleep) lights on, indicates device is under the working mode;
- WIFI icon lights on, means WIFI connected well; WIFI flashing means

WIFI is disconnected;

3.  ON/OFF: Long press this key for more than 3 seconds, device will log into standby status; In standby status, short press this key, device will log into ON/OFF.
4. Short press  ON/OFF key to enter the ON / OFF state.
5. In function mode  standby or power-on mode, Long press to switch to sleep mod; cooperate with others modes (manual, intelligent, appointment)
6. Air speed  Short press to adjust the air volume; press this key to cooperate and view the display parameters;
7. Press the button   to adjust TIMER parameters and other program function;

Parameter Indication



1. Long press  and short press  to quickly view various parameters
2. **T.R.** The remaining time of current program;
3. In sleep mode, mute mode is automatically entered;

Figure Indication:

CH₂O 8.8.8: Real time display of formaldehyde concentration, unit: mg/m³:

PM 2.5 8.8.8: real time display of PM2.5 concentration, unit: µg/m³

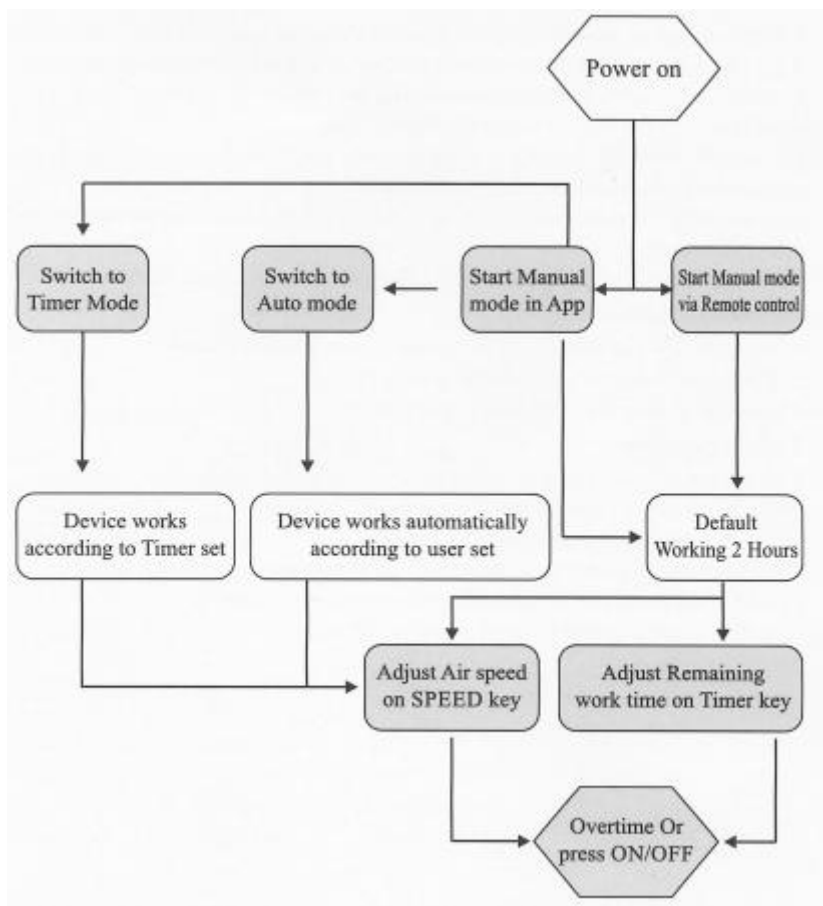
Min 8.8.8: Current remaining working time, unit: Min

H₂O 8.8.8: Real time display of hydrogen peroxide concentration, not applicable here;

CO₂ 8.8.8: real time display of carbon dioxide concentration, unit: ppm;

O₃ 8.8.8: real time display of ozone concentration, unit: mg / m₃;

7.2 Operation Manual



7.3 Remote Control

7.3.1 Instruction for Remote Control

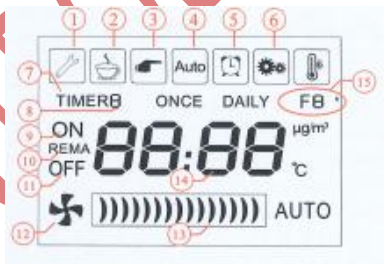


7.3.1.1 Keyboard Instruction

1. ON/OFF: ON/OFF manual mode, if system is in set status. Pressing this button will lead to quit;
2. OK: Confirm the current parameter setting;
3. AUTO: ON/OFF auto mode;
4. SYNC: ON/OFF synchronous mode;
5. TIMER: Enter the timer setting;
6. SLEEP: Applicable to some models;
7. SPEED: Short clicking is left/right direction key, Long-click to increase/decrease air speed;
8. CLK/INQ: Long-pressing to set date, short-pressing to set time; The query content varies according to the device version;
9. SET: It can be pressed together with others keys to enter the combined button function;
10. DISPLAY: ON/OFF the panel display;

Note: the above is a brief description of button function, Please refer the specific operation instructions

7.3.1.2 Display Instruction



1 Set	6 SYNC mode	11 Timer, end time
2 Standby	7 Current time	12 Speed
3 Manual mode	8 Timer work status	13 Speed class
4 Auto mode	9 Timer, start time, type: repeat	14 Digital display
5 Timer mode	10 Remaining work time	15 Type logo

7.3.2 Operation Instruction

7.3.2.1 Standby

Remote control goes to standby when powered up, screen display as picture below.



7.3.2.2 Manual

Press ON/OFF to start/stop Manual mode.

Default working time is 2 hours for Manual mode.

Press **^ or v** to change working time.

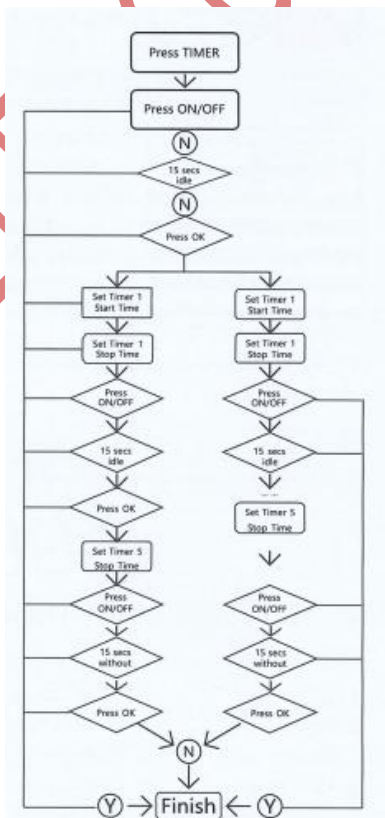
Press ◀ or ▶ to change air speed.

The Remote control goes back to standby when working time is reached

7.3.2.3 Timer

Specs:

1. Up to 4 Timer programs could be created via remote. The latest 5 Timer programs will be saved in the remote control.
2. If Daily is activated, then the programs will be run at the same time everyday

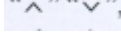


3. The setting operation of Timer program might be interrupted by other operations.
4. During setting of Timer program, the setting will be canceled if no operation (idle) for 15 seconds, of ON/OFF button is pressed; by pressing OK button, up to 5 valid Timer programs will be sent to the Device, and then the devices goes back to standby



a: Timer starting time:

Short Touch Clock to start Timer setting.

Set hours by , Touch again to set minutes;

Final touch to end setting.



b: Timer ending time:

It is same operation as Timer starting time setting.

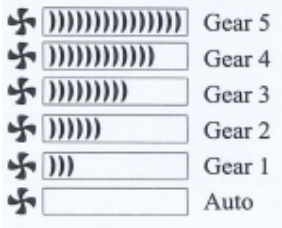
When you finish minutes setting, press Clock again for next Timer Group Setting.



Press Auto to on/off Auto mode.

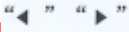


7.3.2.5 SYNC



7.3.2.6 Fan Speed

Note:

- A. Speed adjustment is only available in working modes of Timer and manual;
- B. Speed will be adjusted automatically in AUTO mode;
- C. Speed cannot be adjusted when air-conditioner is on;
- D. Speed could be adjusted in 5 gears; display panel will indicate its gearing number.
- E. Long-press  to adjust the speed gearing;
- F. Gear 5 and gear 4 are only available for some type of devices

7.3.2.4. WIFI connection by remote control only

1. Long-press 'Set' key and 'AUTO' button, then display panel will show 'AP', while WIFI light quickly flashes. Then devices logs into WIFI connection mode;
2. Quick press "^^" in 5 times, then display panel will show 'AP', while WIFI light quickly flashes. Then devices logs into WIFI connection mode.


7.3.2.5 Display

Press 'Display' button, the device will display the information as per display order;

Note: There are total 3 kinds of Display status for hardware version NO1.7 and more; while there are only ON/OFF status for hardware version less than version NO1.7.

7.3.2.6 Inquiry

Operation steps:


1. Short press 'INQ', then system will display accumulated purification time;
2. Click  to switch the displayed contents in order: accumulated purification time, core service time; filter service time and hardware version number.

Note:

1. Press ON/OFF or no operation for 15s during inquiry status, system will log out
2. The above-mentioned inquiry steps are only available for device hardware version NO 1.8 The previous version will show only Beijing time.

7.3.2.7 Clock



1. Short press 'CLK' to set time; flashings on Hour & Minute positions mean HOUR set available;
2. Click  to change time;
3. After HOUR is set, press 'CLK', then flashings on Minute & Hour positions mean Minute set available
4. Repeat step b to adjust Minute;
5. Press 'OK' after Minute set is done; then Clock set finishes;
6. Press ON/OFF or no operation within 15s, Display panel will get back to power on status.
7. Display panel will get back to power-on status

when the remote control set finished.

Note:

Remote controlling time can be set only under standby status;

Long-press 'CLOCK' key to log into set interface for Date; The operation steps are same with Time set.

8. Device Status

Device Status	Description
Manual mode	This mode can be switched on through app, remote control or control panel in the devices. Users can define working hours, the maximum hours is 8 hours.
Auto mode	In the mode, PM2.5, CH ₂ O, TVOC has fixed value, if air quality does not reach this value, Device starts to work automatically, until it reaches the threshold value.
Timer mode	Users can set time to start and end the operation. This mode can be switched on by control panel or remote control.
Sync mode(applicable to central air Device only)	The working status is determined according to the mode of the central air-conditioning line controller. That is, the central air conditioning on, the device is on, the central air conditioning off, the device is off.
Standby mode	The device is normally powered on and connected to the WIFI network, it has access to normal network. However the device is not in working state, which is called standby mode.

Offline mode	The device is not powered on, or device is not connected to Wi-Fi, or if Wi-Fi, but cannot have access to network
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9. Maintenance

1. Maintenance of the whole device: turn off or disconnected the power supply of the purifier, use a soft cloth dipped with a small amount of neutral detergent to scrub the dust and stains on the surface of the panel and the shell, keep the device out of flooding. (Users can operate by himself)
2. Maintenance and replacement of filter: disconnected the main power supply, open the panel environment. In order to avoid infection, please take protective measures (such as wearing a good mask, protective clothing etc.) when replacing. The replaced primary filter shall be treated according to the classification method of medical waste. (this must be operated by after-sales personnel)

10. Environmental Protection and Waste Disposal

The whole device shall be separated and recycled at the end of its service life in accordance with relevant regulations: According to relevant methods, the waste battery is put in the garbage bin for recycling waste battery, and is recycled and treated in a centralized way.

11. Troubleshooting

No	Error	Possible Causes	Troubleshooting
1	The whole device does not work	No power or not connected	Check whether the power supply voltage is AC 110-220V 60 / 50 Hz
			Check whether the power supply is connected properly
		Device failure	Please contact after sales service department
2	Abnormal temperature	Temp $\geq 60^{\circ}\text{C}$	Please contact after sales service department

		Humidity $\geq 90\%$	When the ambient humidity decreases, it will automatically return to normal
3	Disinfection and dust removal not up to standard	Insufficient time for disinfection and purification	Confirm the use of disinfection and purification
		Too large space	Confirm whether the space for disinfection and purification is within the specified range
		Filter failed	Replace filter is required
4	Can't get rid of peculiar smell	Filter grid failed	Replace filter as required
5	Remote control failure	Remote control power is too low	Replace battery is required
		Light source, electromagnetic device interference	Please try close control
		An obstacle between the remote control and the Device	Remote obstacles

Note:

1. Please consult the after-sales service department of PT. Sinko Prima Alloy
2. Before maintenance, in order to protect the operator's safety, please disconnect the power supply of the devices;
3. Other faults that cannot shall be repaired by professional maintenance personnel or electrical personnel authorized by our company. Do not the device by yourself, In order to prevent from electric shock accidents or expansion of faults.

12 After-sales Service

Dear users, excellent after-sales services will accompany you since from you purchase our products, it will remove all your worries after utilizing our products.

1. Life-long maintenance

The maintenance on the sold products of our company is charge items

2. Guidance in free of charge

Our company out subordinate provincial offices, general agency will provide free consult, free on-site training, hosting lectures for the technical problems, utilizing methods during the process of utilizing our product, and provide relevant materials, jointly corporate to meet the best utilizing effects.

3. Others

If you purchased our product through middle man, hope you directly contact our company, so that our company can create filing and operate regular after-sales service.

Note: The after-sales service principle is only applied to the plasma air Device created and purchased by our company.

13. APP Instruction

13.1. Freshing air Cloud Manager APP Download



13.2 Register and login

1. Press "Sign Up", shown as 2-1
2. Input email address and press "Send"
3. Input the verification code, password, and confirm password
4. After reading and accepting the *Service Agreement* and *Privacy Policy*, press "Sign Up".
5. After registration, go back to login
6. Input email address
7. Input password
8. Press "Login"

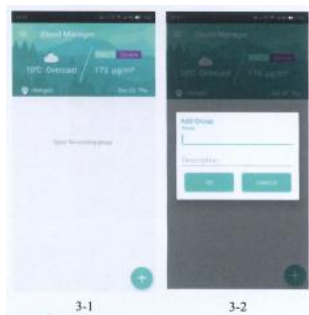
9. After login, it displays homepage
10. Showing current city name, PM2.5 (if available), temperature and weather at top of homepage
11. Showing preset groups under homepage



13.3. Group management

Create group

1. Log in and enter into the homepage, showing the group see 3-1
2. Press “+” to create new group, see 3-2
3. Input name, mark and press “Confirm”
4. See 3-3, new group created
5. Press group to display the device list, press again to hide. Default concealment the device.
6. There is an “ungroup”, which is the default group of the system, not editable, hidden while there is no device and showing when there is a device.



13.4. Amend the group name



1. Press the group name or the right



4-1

13.5. Delete group

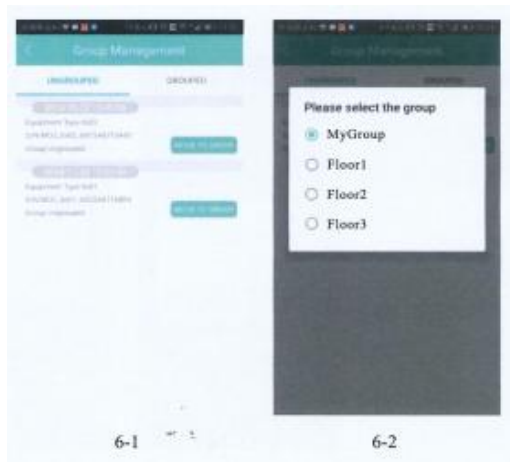
1. Press on the group for few to pop up delete group
2. Unbind all Sterilizers before the group can be deleted
3. "Ungrouped" can not be deleted



5-1

13.6. Move ungrouped Sterilizer to a group


1. Press “Group Management”, see 6-1
2. Press “Ungrouped” to check all ungrouped Sterilizers
3. Press “Move to Group” and select a group



13.7. Bind and unbind Sterilizers

Note: When configuring the network, the mobile phone and the Sterilizer must be connected with same network, and the Wifi frequency must be 2.4G

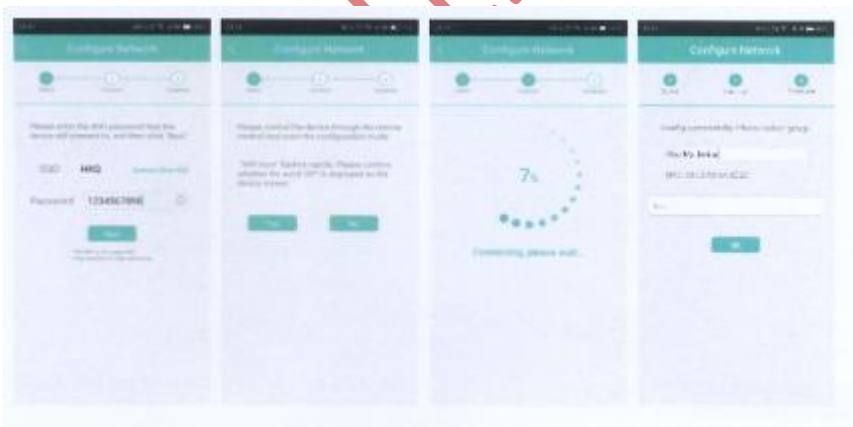
Network configuration

1. Press ^ 5 times on remote to start network configurations mode, colon stops to twinkle.
2. Press homepage icon  or slide from left to right to show the menu
3. Enter into network configuration, see 7-2
4. Input the WIFI password and link with same WIFI as phone, see 7-3
5. Colon start to twinkle while link successfully
6. Poor network may lead to no Sterilizer found. Press V 3 times on remote to stop and press ^ 5 times to start link again when network is better.



13.8. One key configuration

1. Linked with Wifi, press “Bind with Sterilizer” to bind
2. Wifi icon on display panel of Sterilizer will be lit up all the time after bind
3. Press “Move to group” to move the Sterilizer to one group
4. If no group selected, the Sterilizer is displayed in “Ungrouped”



13.9. Search devices

1. Press “Search Devices” in menu, see 9-1
2. Enter into “Search Devices” start to search for available sterilizers. If no Sterilizer found, it shows as 9-2
3. New sterilizer found, see 9-3

4. Search for new Sterilizer to bind



13.10. Unbind sterilizer

1. Press the sterilizer in its group
2. Press setting icon, see 10-1
3. Press "Device Info", see 10-2
4. Press "Unbind", see 10-3



- Note: Sterilizer must be unbound if it's going to be used by another place or person since it can be bound with only one account.

13.11. Guide on Sterilizer control

Manual mode

1. Enter into the Sterilizer control page, see 11-1
2. Choose manual purify

3. Press "Manual" to turn on/off Manual mode
4. Sterilizer start to work and it displays remaining working time



13.12. Auto mode

1. Enter into Sterilizer control page
2. Press "AUTO" to turn ON/OFF
3. Press setting icon to set threshold values
4. Press "Save" to save changes



13.13. Timer mode

1. Enter into Sterilizer control page, choose reservation purify, see 13-1

2. Press “Timer” to turn ON/OFF auto
3. Press setting icon, see 13-2
4. Press any timers and adjust freely, see 13-1



13.14. Restart

Press “Restart”, see 14-2

13.15. Adjust wind speed

Press “+” and “-” to adjust wind speed under “Device control” page

13.16 Customize display

1. Enter into “Device control” page, see 14-1
2. Click “Modify lamp panel display”, see 14-2
3. Set time out values, see 14-3



13.17. Batch control

1. Press “Group management”, see 15-1
2. Press “Group”, check the group list, see 15-2
3. Press “Start All” (2 HOURS) or “Stop All” to control all Sterilizers in the group



13.18. Current data and historical curves

1. Real-time data displays shown in 16-1, by clicking below PM 2.5, temperature, humidity and switching over the real-time data display or history curve
2. Press “Current” or “History” to switch, see 16-1
3. By clicking the PM2.5, temperature, humidity and so on, toggle the upper historical data.
4. Slide the history to display the data in last 7 days



13.19. Change user information

(1) Change nick name

1. Press “Profile”, see 17-1
2. Press “Nick Name”, see 17-2
3. Press “Save” to save settings



13.20. Change gender

1. Press “Sex”, see 18-1



13.21. Change address

1. Press “Add”, see 19-1



13.22. Change email

1. Press “Email”, see 20-1



13.23. Change & retrieve password

1. Press “Password”, see 21-1



13.24. Retrieve Password

1. Press “Forget Password”, see 22-1

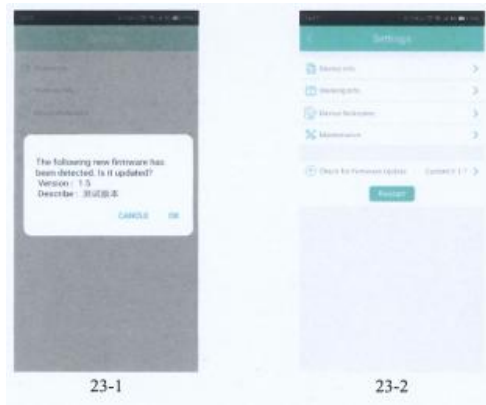


13.25. Firmware update

1. Press “Firmware update” in “Settings” page, check new version, see 23-1

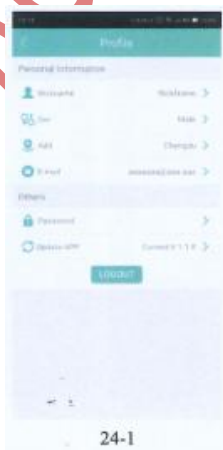
2. Press “Update now”, see 23-1

Note: Sterilizer and phone to connect with same Wi-Fi during update



13.26. APP Update

1. Press “Profile”, see 24-1
2. Press “Update APP”, it displays a note if there is update available
3. Press “Update” to download and uninstall



PLASMA AIR STERILIZER

KJF-Y100

MANUAL BOOK